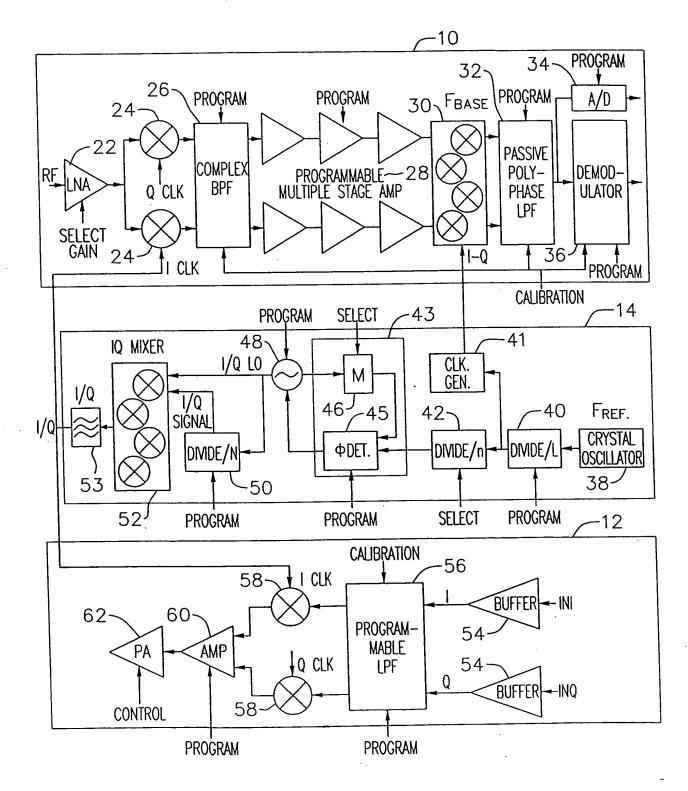
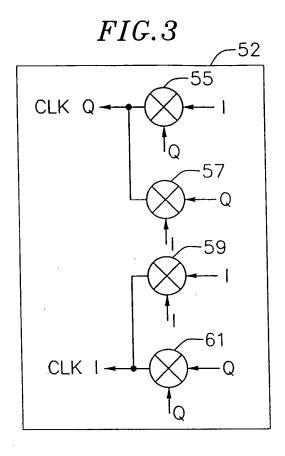


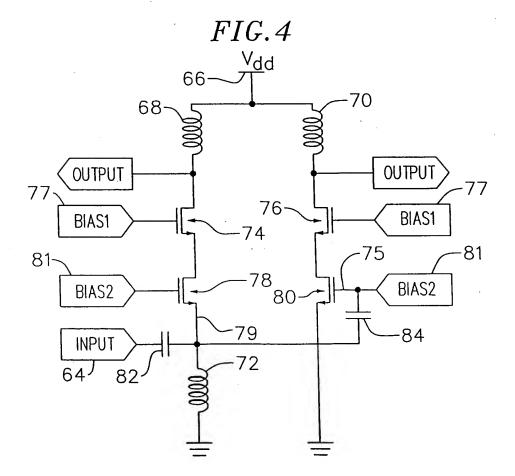


FIG.2



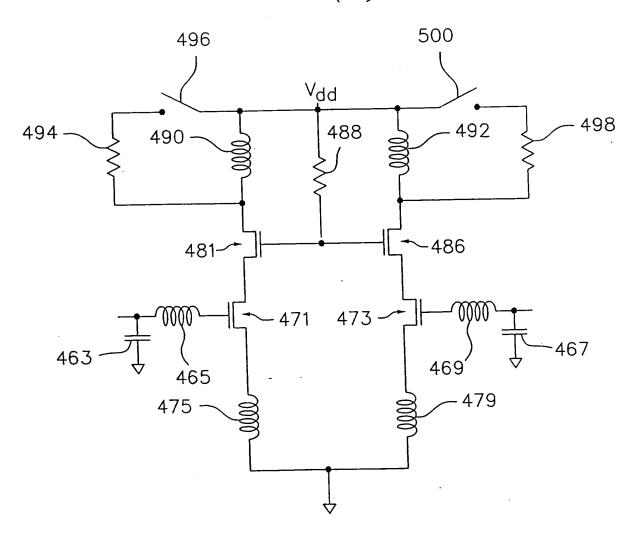








 $FIG.4(\alpha)$ 







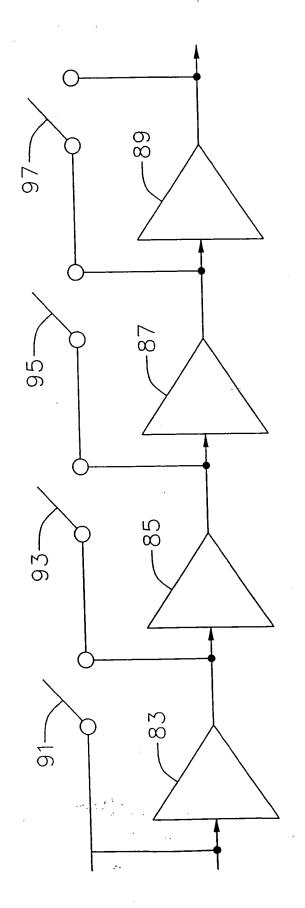




FIG.6

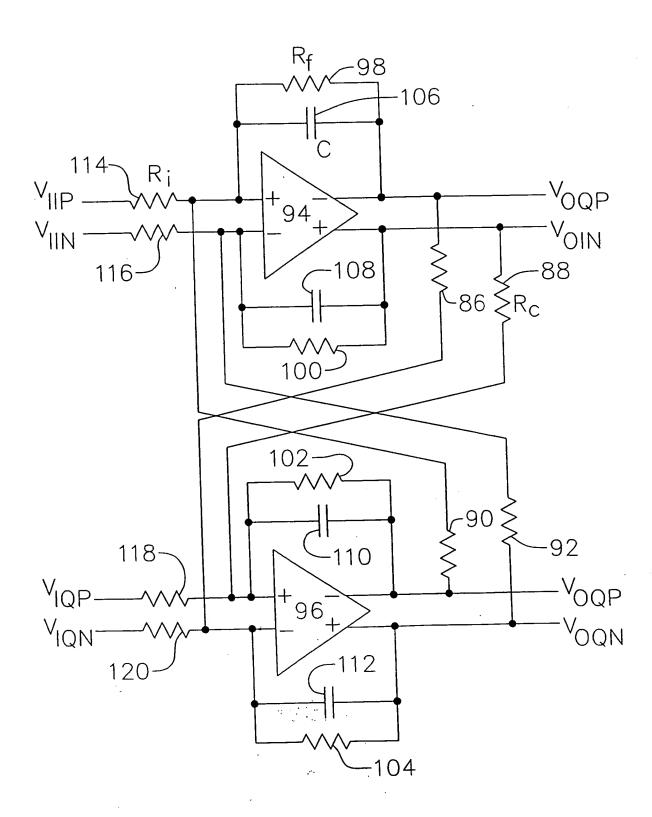
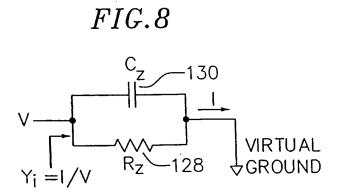




FIG. 7  $|H(\cdot)|$   $|A/\sqrt{2}|$   $|A/\sqrt{2}|$   $|A/\sqrt{1+(4Q)^2}|$   $|A/\sqrt{1+(4Q)^2}|$   $|A/\sqrt{1+(4Q)^2}|$   $|A/\sqrt{1+(4Q)^2}|$   $|A/\sqrt{1+(4Q)^2}|$ 



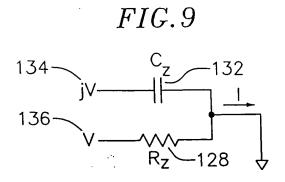
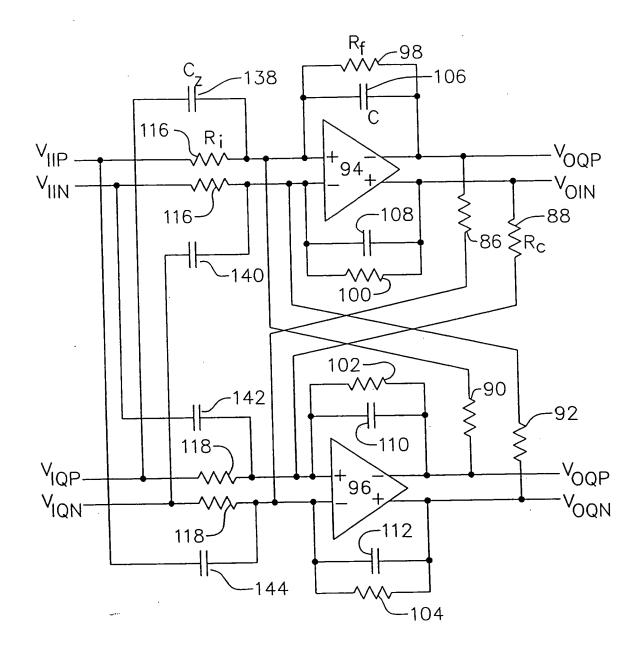




FIG. 10





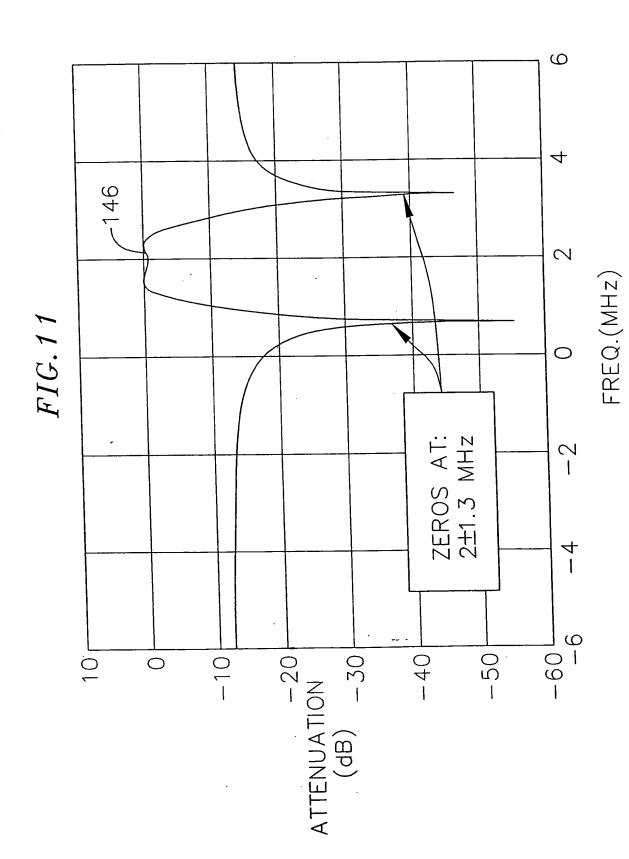




FIG.  $12(\alpha)$ 

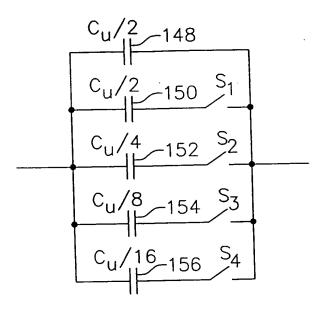


FIG. 12(b)

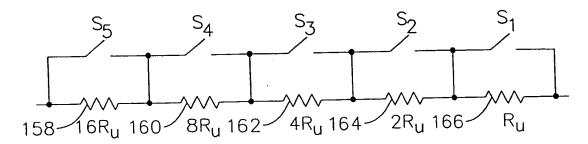




FIG. 13

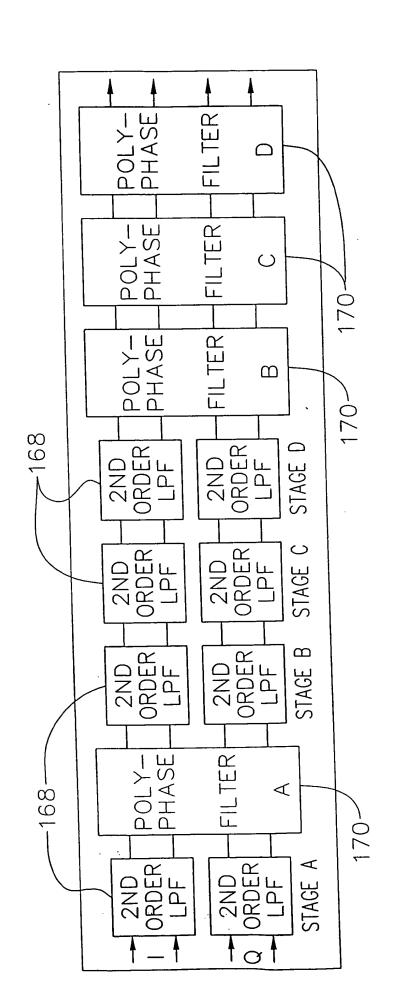




FIG. 14

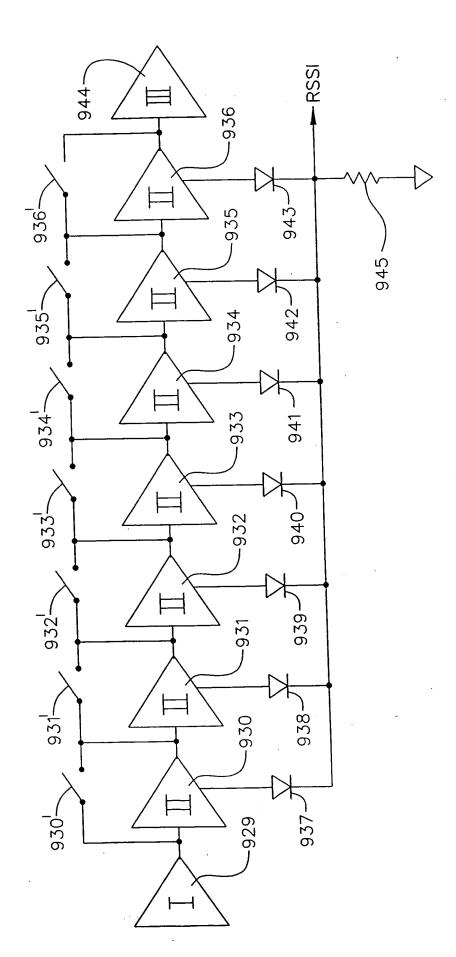




FIG. 15

950

952

954

956

5kΩ

958

962

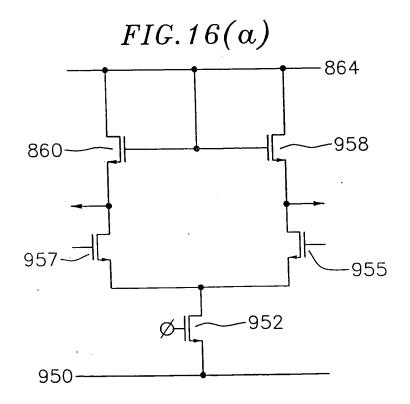
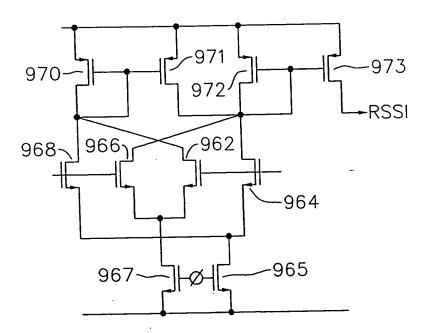
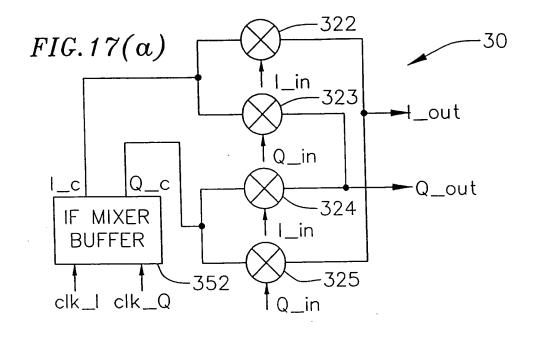


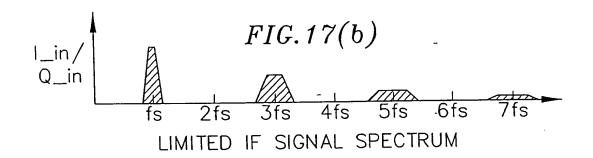


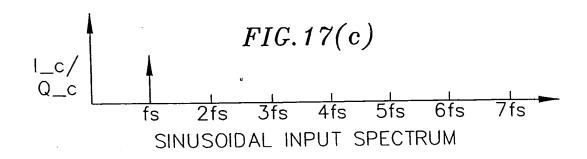
FIG. 16(b)











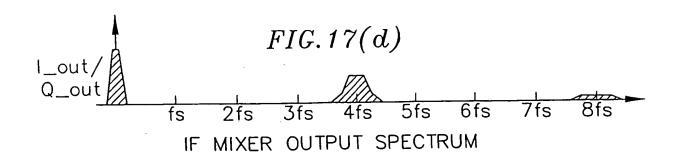




FIG. 18

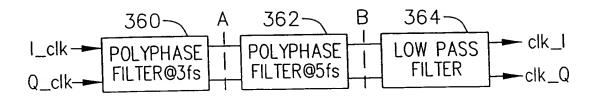
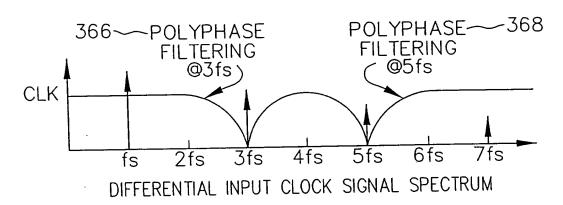
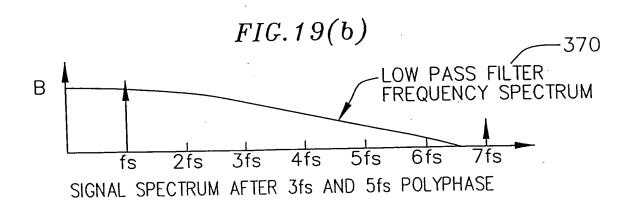
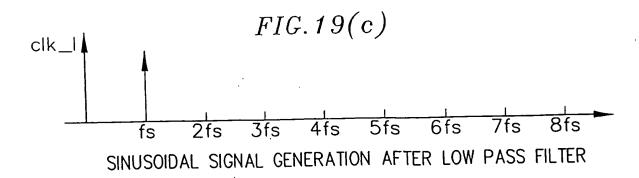


FIG. 19( $\alpha$ )









 $FIG.20(\alpha)$ 

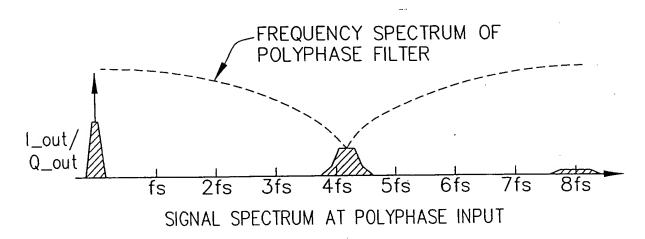
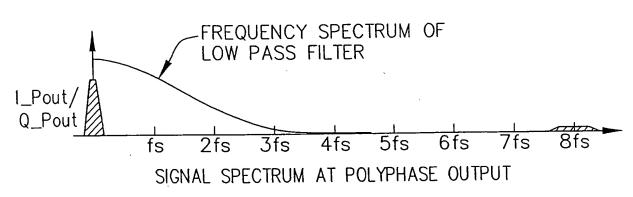


FIG.20(b)



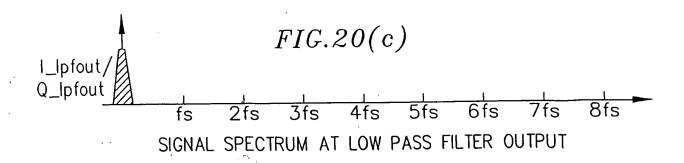




FIG.21

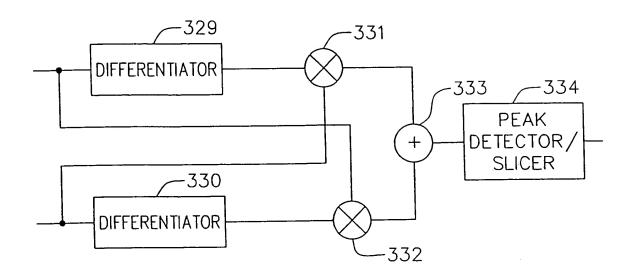


FIG.22

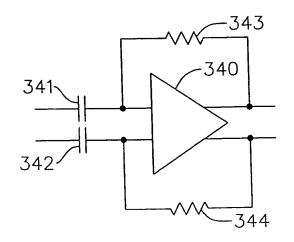




FIG.23

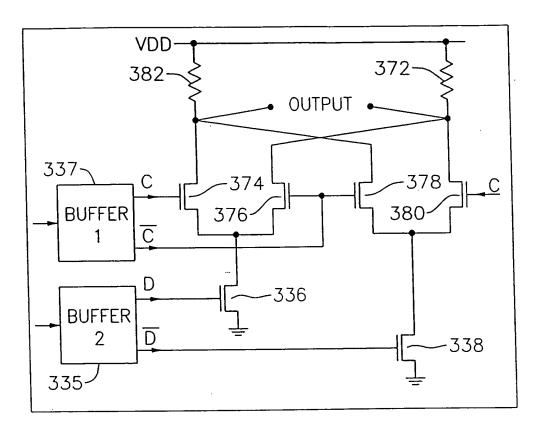
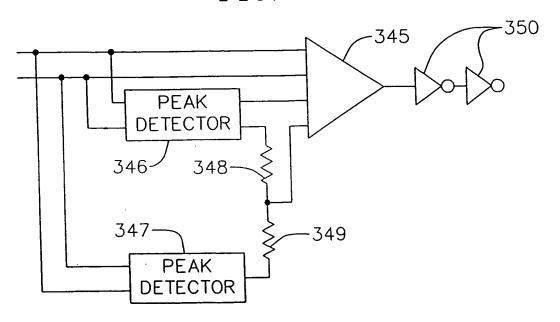


FIG.24



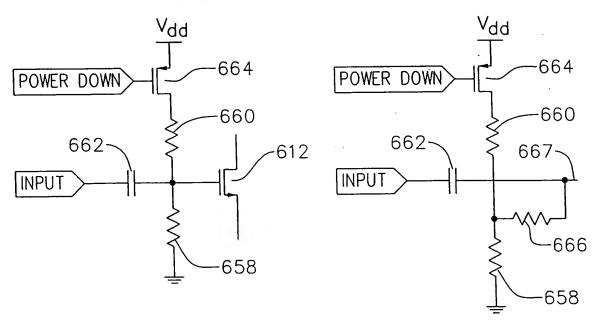
-654 50 ohm Termination -648 -646 BALUN -610 .652 -650 ON-CHIP COUPLING MM 0000 COUPLING -642 644 638 00,00 632 ρpΛ -634 624 -636 M 6407  $\overline{m}$ -626 -630 622~ -620 <u>u</u> -616 -623 0000 -622 614pp/ -612 100 Bias  $\overline{m}$ 618-624 dul 6281

FIG.25



 $FIG.26(\alpha)$ 

FIG.26(b)



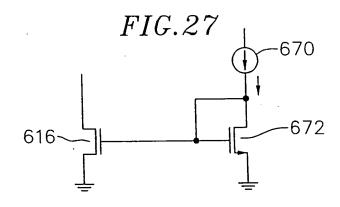
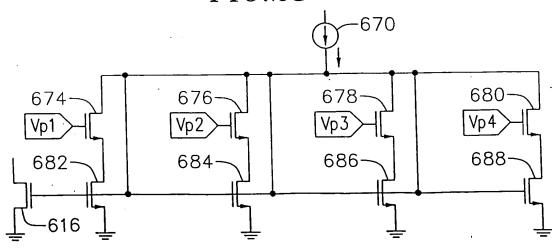
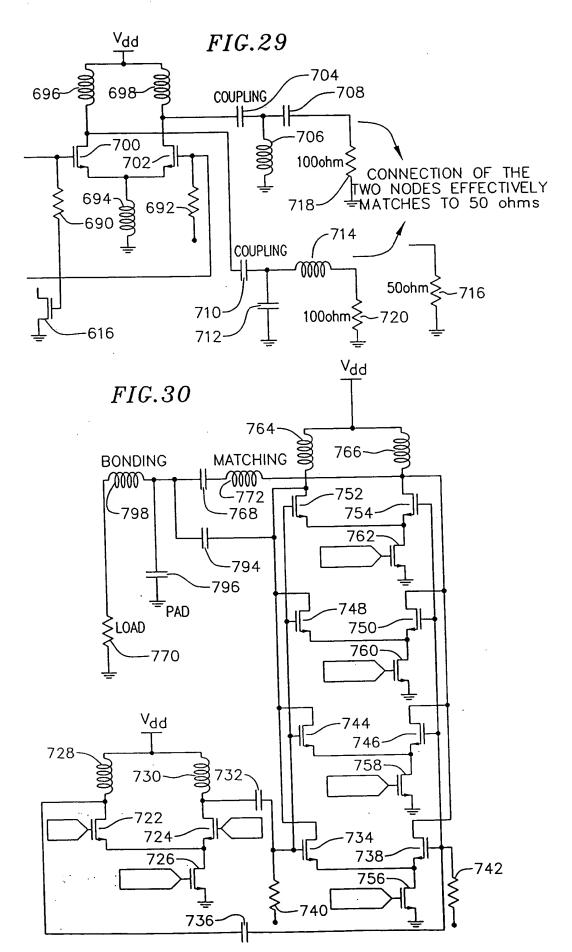


FIG.28

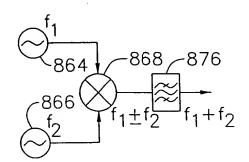








 $FIG.31(\alpha)$ 



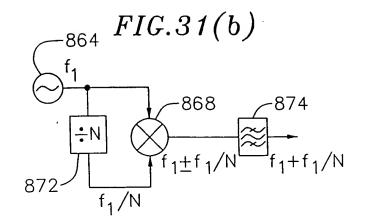


FIG.32

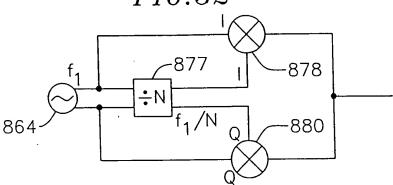
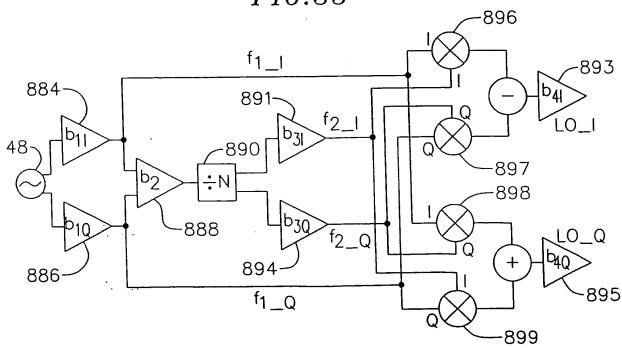


FIG.33





 $FIG.33(\alpha)$ 

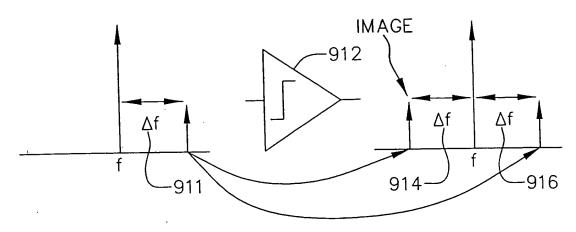


FIG.34

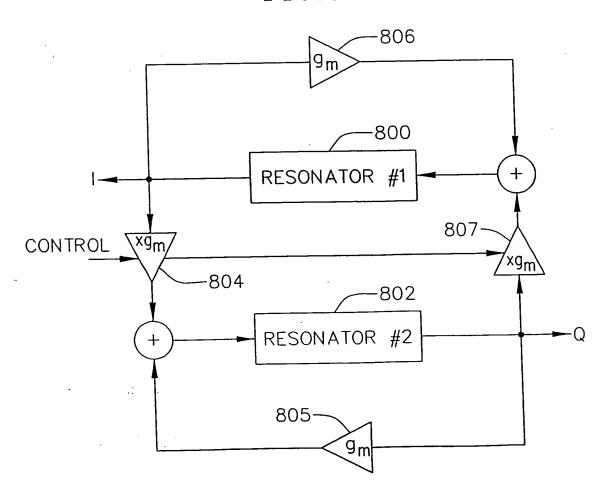
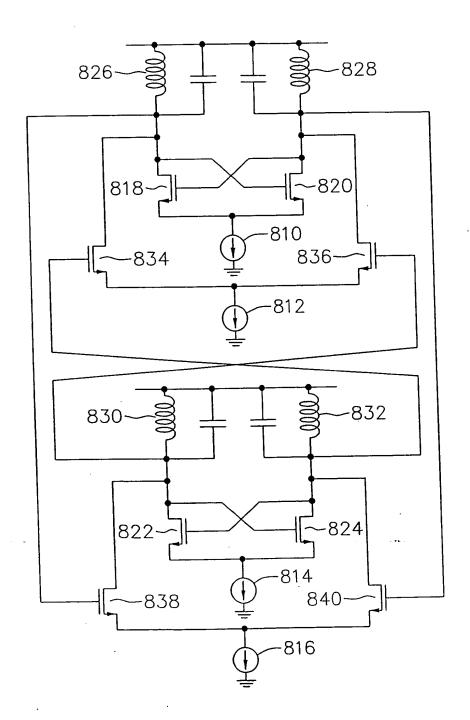
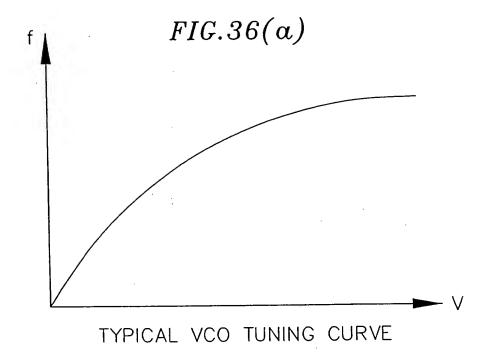


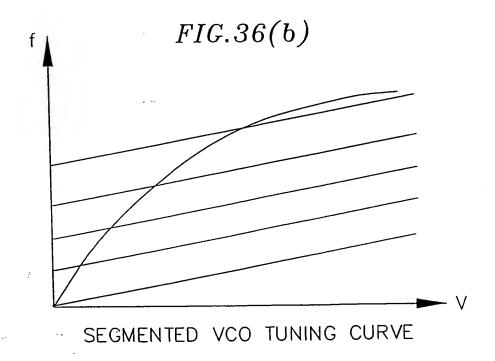


FIG.35











 $FIG.37(\alpha)$ 

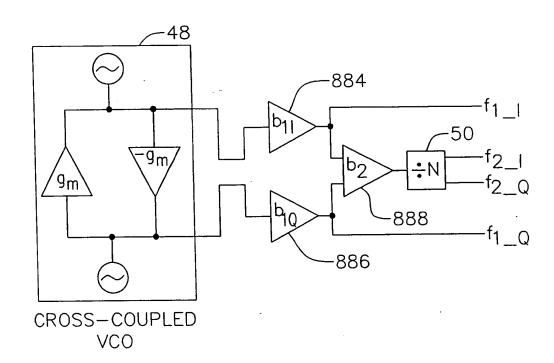


FIG.37(b)

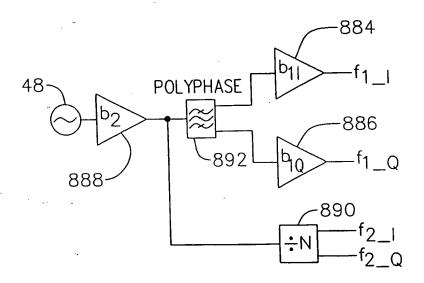
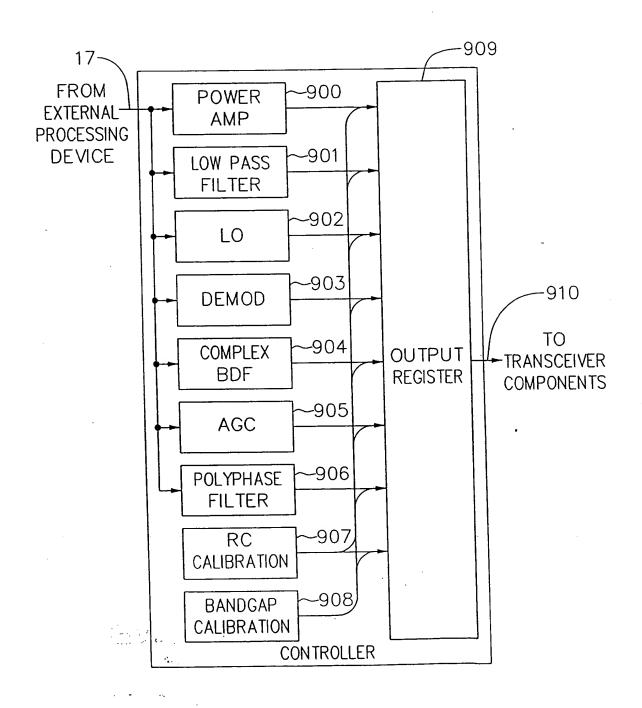
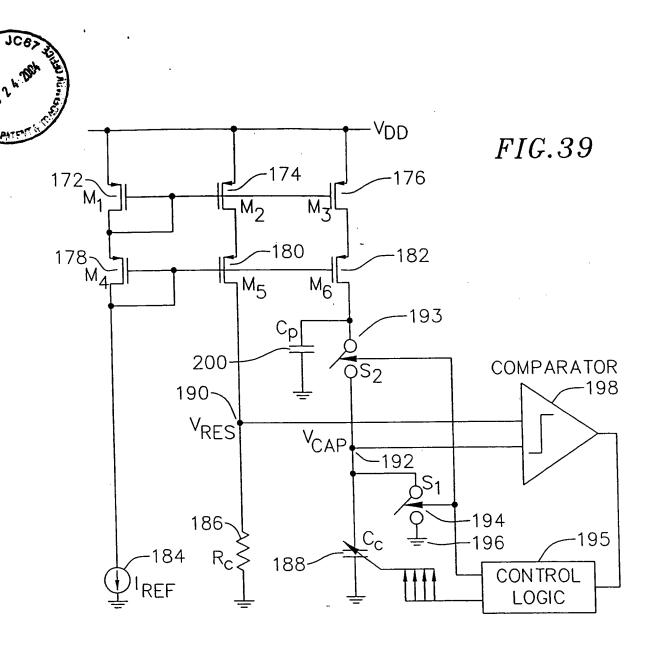
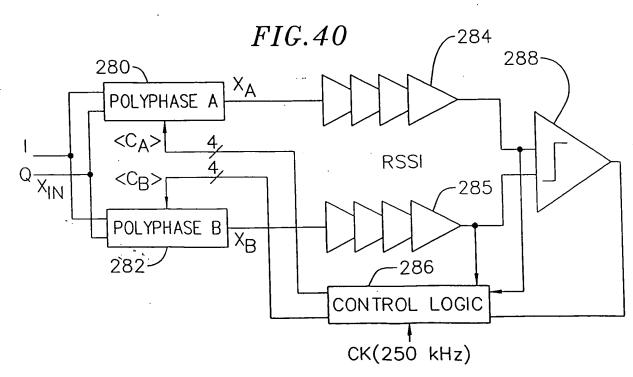




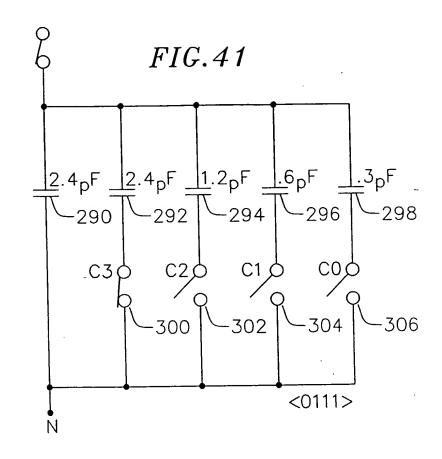
FIG.38











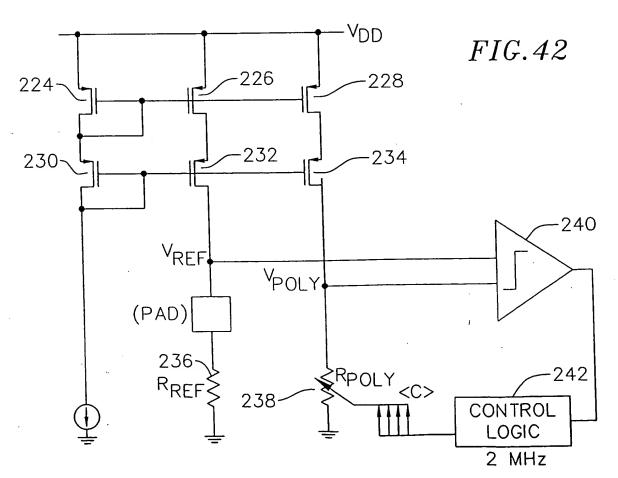
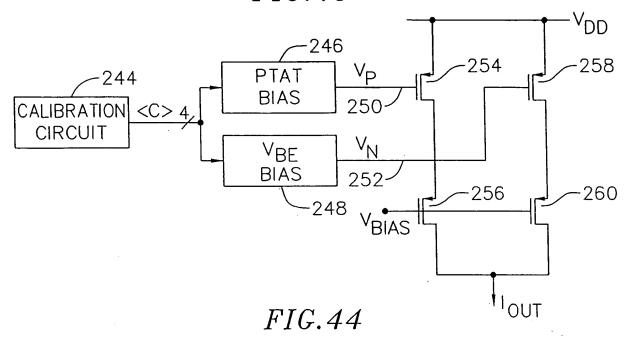




FIG.43



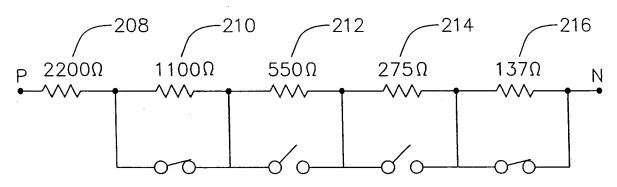
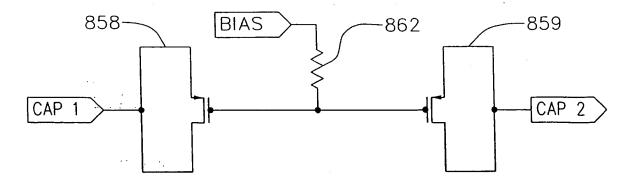


FIG. 45





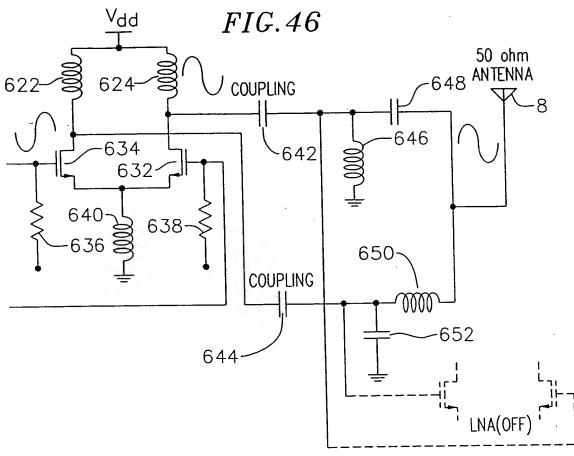


FIG. 47

COUPLING

PA(OFF)

648

ANTENNA

640

COUPLING

650

COUPLING

650

COUPLING

650